

# Converting Colors

CIELCh(72, 12.835, 197.633)

Have a look what the booklet for  
CIELCh(72, 12.835, 197.633)  
contains.

<b>CIELCh(72, 12.705, 198.423)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(72, 12.705, 198.423)**

# Conversions

## Conversions Part 1

Format	Color
Hex	93B7B7
RGB	147, 183, 183
RGB Percent	58%, 72%, 72%
CMY	0.4223, 0.2811, 0.2811
CMYK	0.20, 0.00, 0.00, 0.28
HSL	180°, 20%, 65%
HSV	180°, 20%, 72%
XYZ	37.6649, 43.6590, 51.4120
YIQ	172.2360, -21.4560, -7.6320

# Conversions

## Conversions Part 2

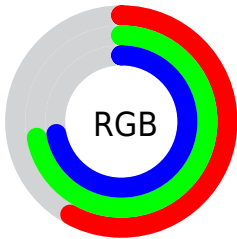
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	147, 165, 183
Decimal	9680823
CIE <sub>Lab</sub>	72.00, -12.05, -4.02
CIE <sub>LCh</sub>	72, 12.705, 198.423
Yxy	43.6590, 0.2838, 0.3289
Android (android.graphics.Color)	4287870903 (0xFF93B7B7)
<b>YUV</b>	172.2360, 5.3067, -22.1320
Hunter-Lab	66.0750, -13.8804, 0.1198

# Details

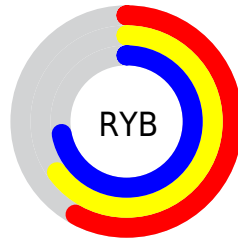
The CIELCh color **72, 12.705, 198.423** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **64, 14.433, 20.774**, and the grayscale version is **71, 0.009, 296.813**.

A 20% lighter version of the original color is **92, 12.569, 198.624**, and **52, 12.867, 198.111** is the 20% darker color. If you saturate the color by 10%, you get **71, 18.518, 197.947**, and if you desaturate by 10%, it is **73, 6.417, 198.959**.

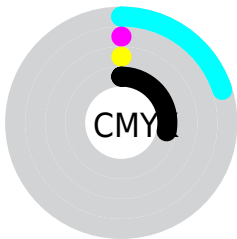
# Distribution



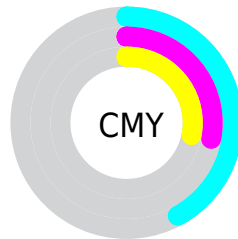
- Red (58%)
- Green (72%)
- Blue (72%)



- Red (58%)
- Yellow (65%)
- Blue (72%)



- Cyan (20%)
- Magenta (0%)
- Yellow (0%)
- Black (28%)




- Cyan (42%)
- Magenta (28%)
- Yellow (28%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 12.705, 198.423 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 72, 12.705, 198.423 by changing the saturation by 10% instead.





 72, 12.705,  
198.423


 72, 12.705,  
198.423


 100, 12.705,  
198.423


 62, 12.705,  
198.423


 92, 12.705,  
198.423

 52, 12.705,  
198.423

 42, 12.705,  
198.423

 32, 12.705,  
198.423

 22, 12.705,  
198.423

 12, 12.705,  
198.423

 2, 12.705, 198.423

0, 12.705, 198.423

72, 12.705,  
198.423

72, 12.705,  
198.423

71, 18.518,  
197.947

73, 6.417, 198.959

70, 23.746,  
197.536

75, 0.244, 17.297

69, 28.287,  
197.186

76, 7.179, 19.917

69, 32.059,  
196.900

79, 21.554, 21.167

68, 35.005,  
196.680

81, 27.947, 21.712

68, 37.111,  
196.523

81, 27.947, 21.711

81, 27.947, 21.709

■ 68, 38.414,  
196.426

■ 81, 27.947, 21.708

■ 68, 39.093,  
196.376

■ 68, 39.114,  
196.374

# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



72, 12.705, 198.423



64, 14.433, 20.774

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



72, 12.705, 198.423



72, 12.705, 248.423



72, 12.705, 18.423



72, 12.705, 68.423

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



72, 12.706, 198.417



93, 4.964, 199.193



71, 23.875, 142.791



50, 3.314, 199.146



97, 0.011, 296.813



50, 0.007, 296.813





# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



72, 12.706, 198.417



90, 18.838, 198.186



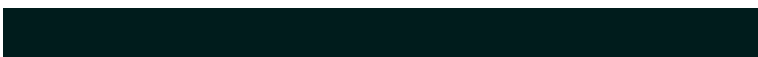
67, 11.464, 256.348



38, 3.777, 198.978



58, 34.646, 196.374



8, 10.519, 197.729



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



64, 14.433, 20.774



79, 22.137, 21.241



69, 12.130, 71.222



36, 4.004, 19.909



32, 71.867, 39.596



2, 10.638, 19.400



# Previews

## White Background



This preview shows how the CIELCh color 72, 12.705, 198.423 looks on a white background.

## Color Contrast Check

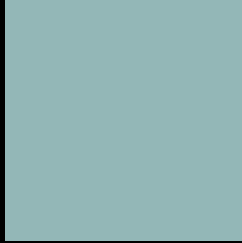
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 72, 12.705, 198.423 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

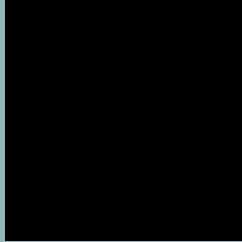
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

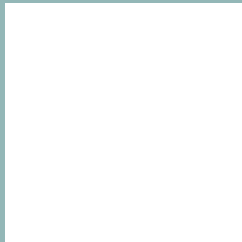
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 72, 12.705, 198.423

## Background



This preview shows how black text looks on a background with the CIELCh color 72, 12.705, 198.423.

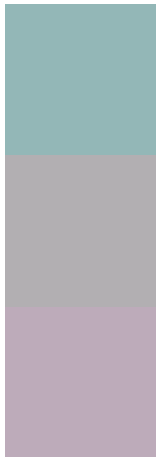


This preview shows how white text looks on a background with the CIELCh color 72, 12.705, 198.423.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

72, 12.705, 198.423

### Protanopia

72, 1.999, 324.415

### Deuteranopia

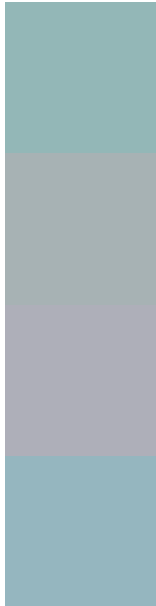
72, 10.600, 329.935





**Tritanopia**  
72, 13.194, 237.205

# Trichromacy



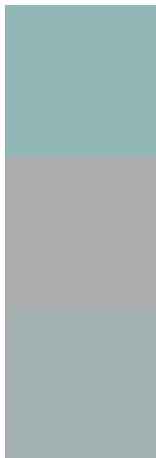
**Original Color**  
72, 12.705, 198.423

**Protanomaly**  
72, 4.155, 214.429

**Deuteranomaly**  
72, 5.461, 286.887

**Tritanomaly**  
72, 12.313, 222.180

# Monochromacy



**Original Color**  
72, 12.705, 198.423

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
71, 4.776, 199.113

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 12.705, 198.423 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(147, 183, 183)` looks like.

```
.text, #text, p{  
    color:rgb(147, 183, 183)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(147, 183, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 183, 183) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 12.705, 198.423 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(147, 183, 183) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(147, 183, 183) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(147, 183, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 183, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 183, 183);  
box-shadow:4px 4px 4px 4px rgb(147, 183,  
183) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 12.705, 198.423 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 183, 183) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(147,  
183, 183) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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